

# Light Emitting Diodes

Thru-Hole LEDs

ADP Series



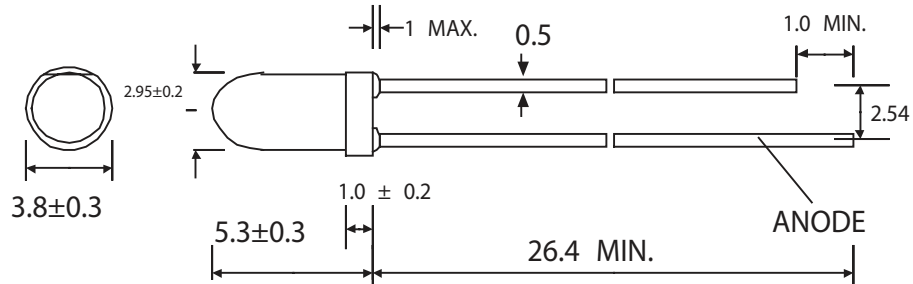
ADP0-31500-Sx

WHITE



## INTRODUCTION

The Adiva Thru-Hole LED has a wide range of applications and is encapsulated in water clear epoxy resin with an 3mm diameter.



## FEATURES

- High Luminous intensity, with a longer operation life.
- Excellent consistency on color, intensity and Forward Current.
- Rugged and reliable design gives high shock/vibration resistance.
- Excellent Solderability and resistance to soldering heat.
- High Reliability, 100% Probing Test.
- Low thermal resistance

## ABSOLUTE MAXIMUM RATINGS

Items	Symbols	Ratings	Unit
Operation Forward Current	I <sub>f</sub>	30	mA
Reverse Current	I <sub>r</sub>	100	uA
Operating Temperature Range	T <sub>Op</sub>	-25 ~ 80	C
Power Dissipation	P <sub>D</sub>	100	mW
Peak Pulse Forward Current	P <sub>I</sub> f	100	mA
Storage Temp. Range	T <sub>S</sub>	-30 ~ 100	C
Soldering Temperature	T <sub>sol</sub>	* 260	C

## ELECTRICAL-OPTICAL CHARACTERISTICS

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>f</sub>	IF=20mA	2.9	--	3.5	V
CIE Value	x / y	IF=20mA	0.27/0.30	0.30/0.335	0.33/0.37	nm
Luminous Intensity	I <sub>v</sub>	IF=20mA	6000	--	15000	mcd

## SERIES STANDARD SPECIFICATIONS

Shape	Emitting Color	Part Number	Dominant CIE Value	Diffusion	IR(μA)		Reverse Voltage RV	Emitting Material	Viewing Angle Q (deg.)
					IF RV=5V MAX	Min			
3ø	White	ADP0-31500-Sx	0.30/0.335	W.C.	100	20	5V	InGaN	15 - 30

Bin Ranking	S1	S2	S3	Unit
Luminous Intensity	4000 - 7000	6000 - 9000	10000 - 15000	mcd

# Light Emitting Diodes

Thru-Hole

ADP Series



ADP0-3150-Sx

WHITE

Typical Electrical/Optical Characteristics Curve:  
(25 °C Ambient Temperature Unless Otherwise noted)

Fig1. Relative Intensity vs. Wavelength

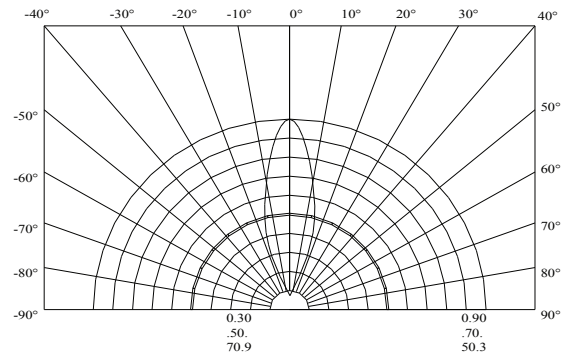
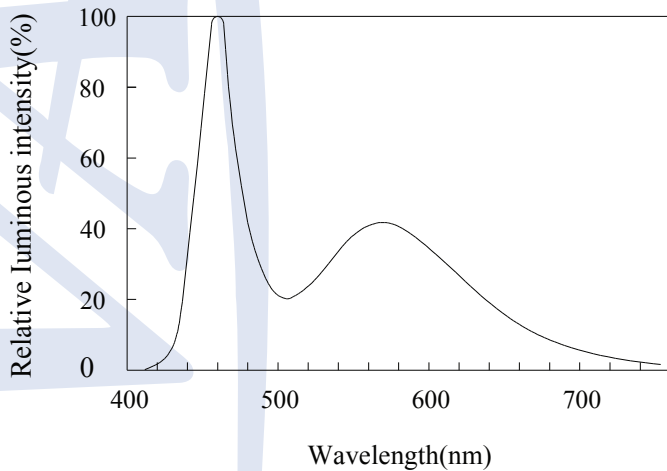


Fig2. Forward Current vs. Forward Voltage

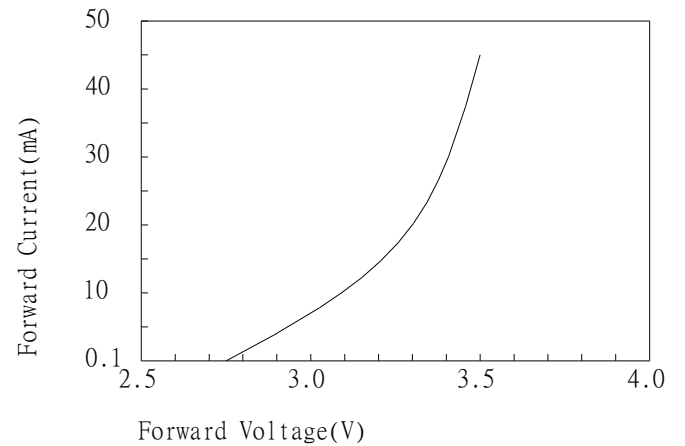


Fig3. Relative Intensity vs. Forward Current

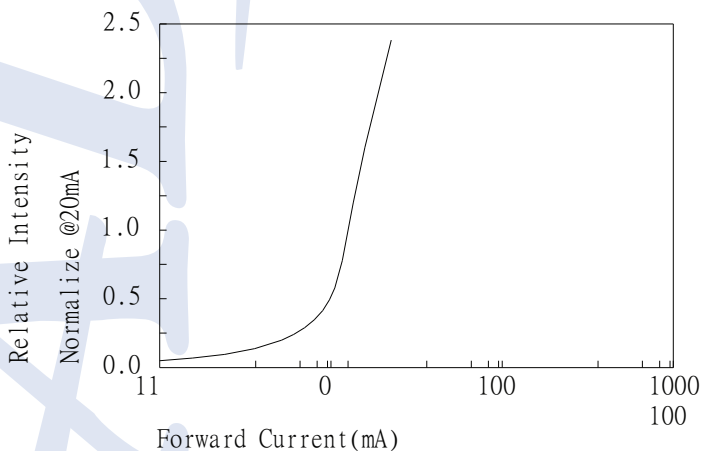


Fig4. Forward Voltage vs. Temperature

